

Docket No:  
Inventor(s):  
Title:

MS1-1665US  
Kesal, et al.  
ESTIMATING ORIENTATION ANGLE AND TRANSLATION VALUES OF SCANNED IMAGES

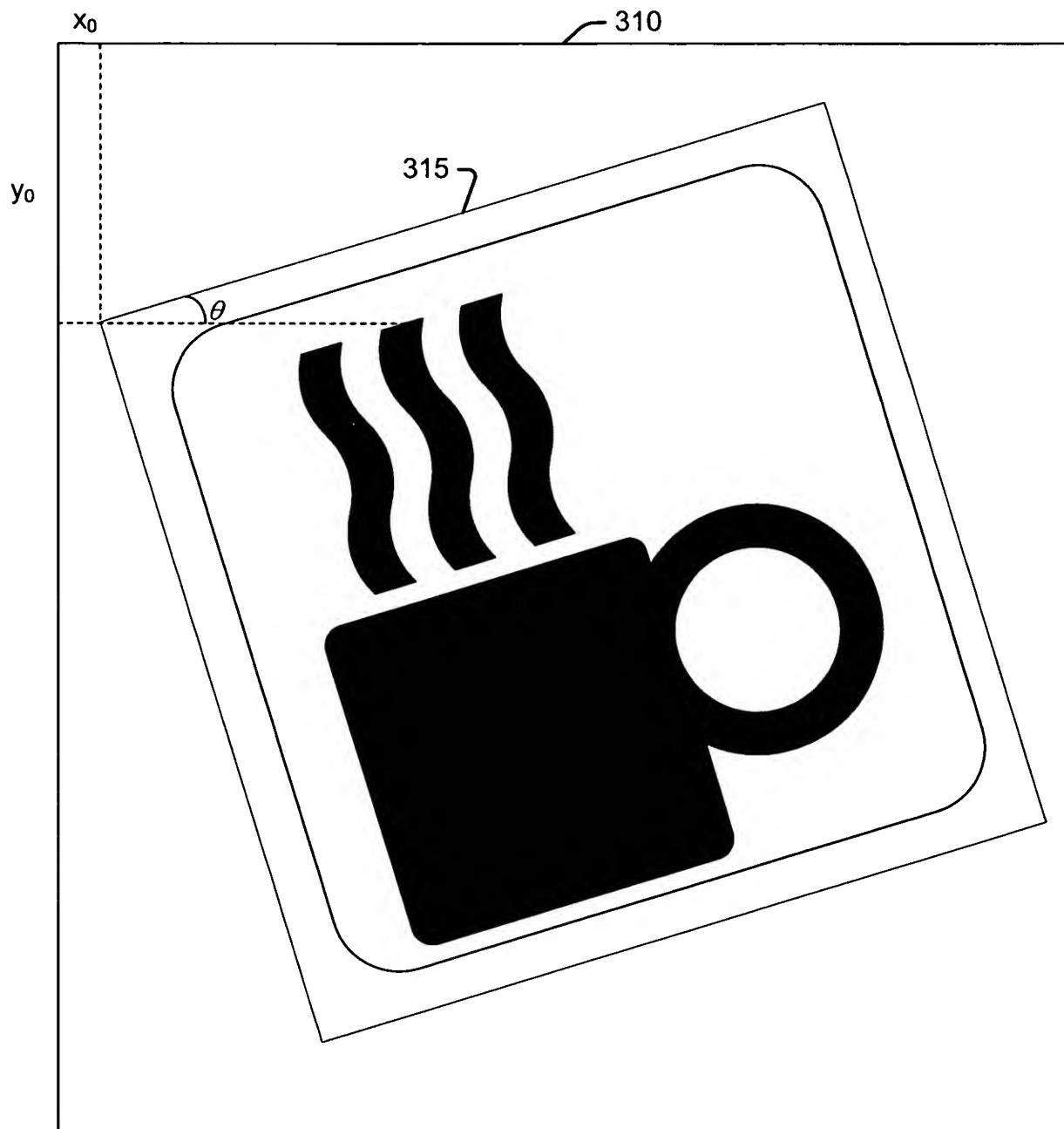
2 of 19



*Fig. 2*

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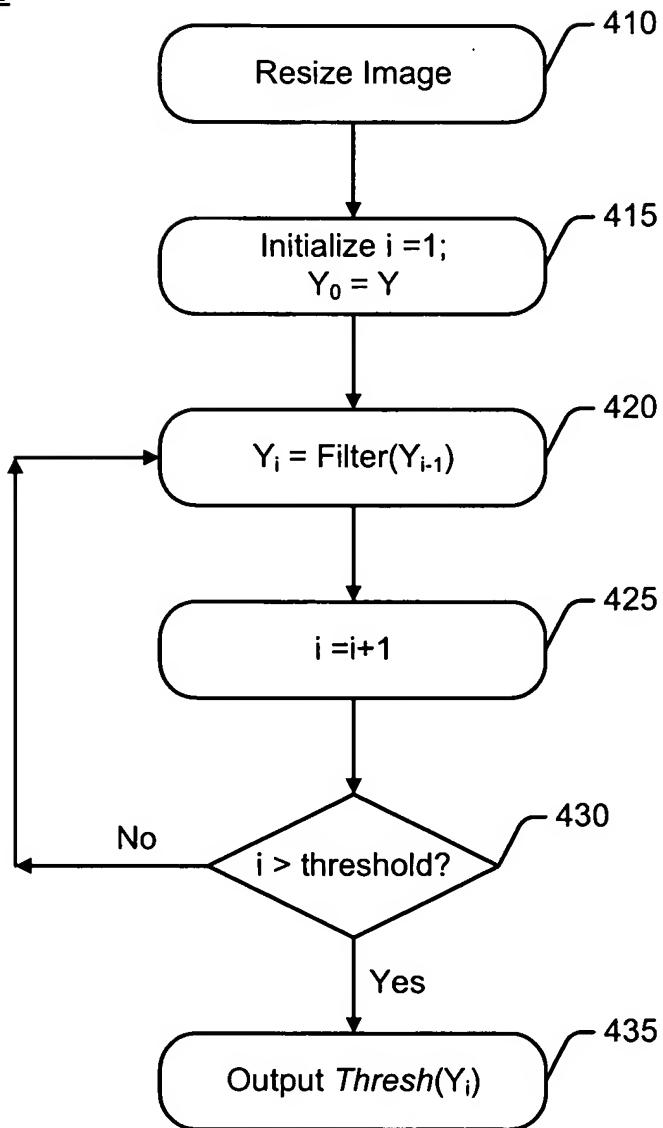
300



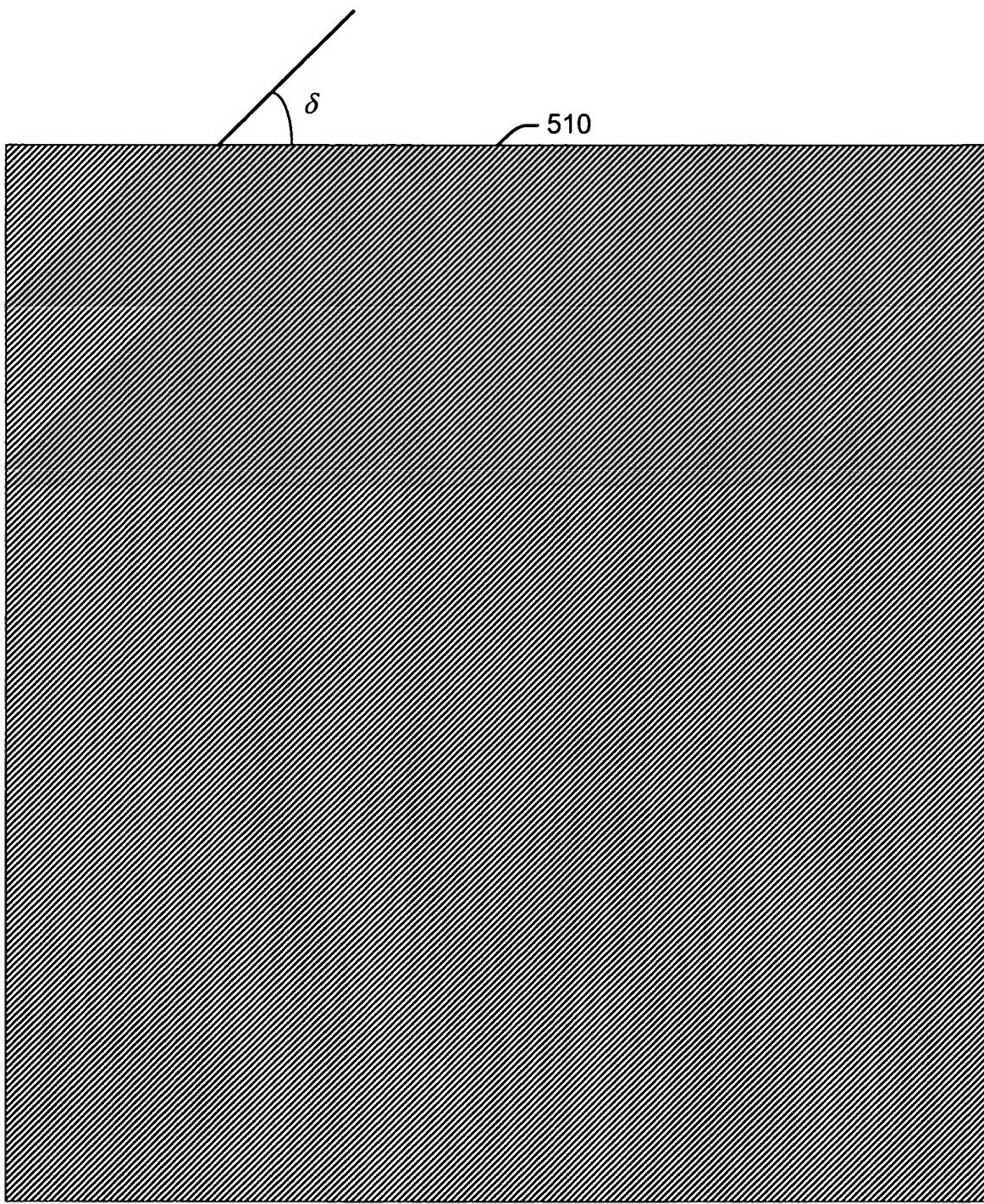
*Fig. 3*

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400



*Fig. 4*



*Fig. 5*

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600

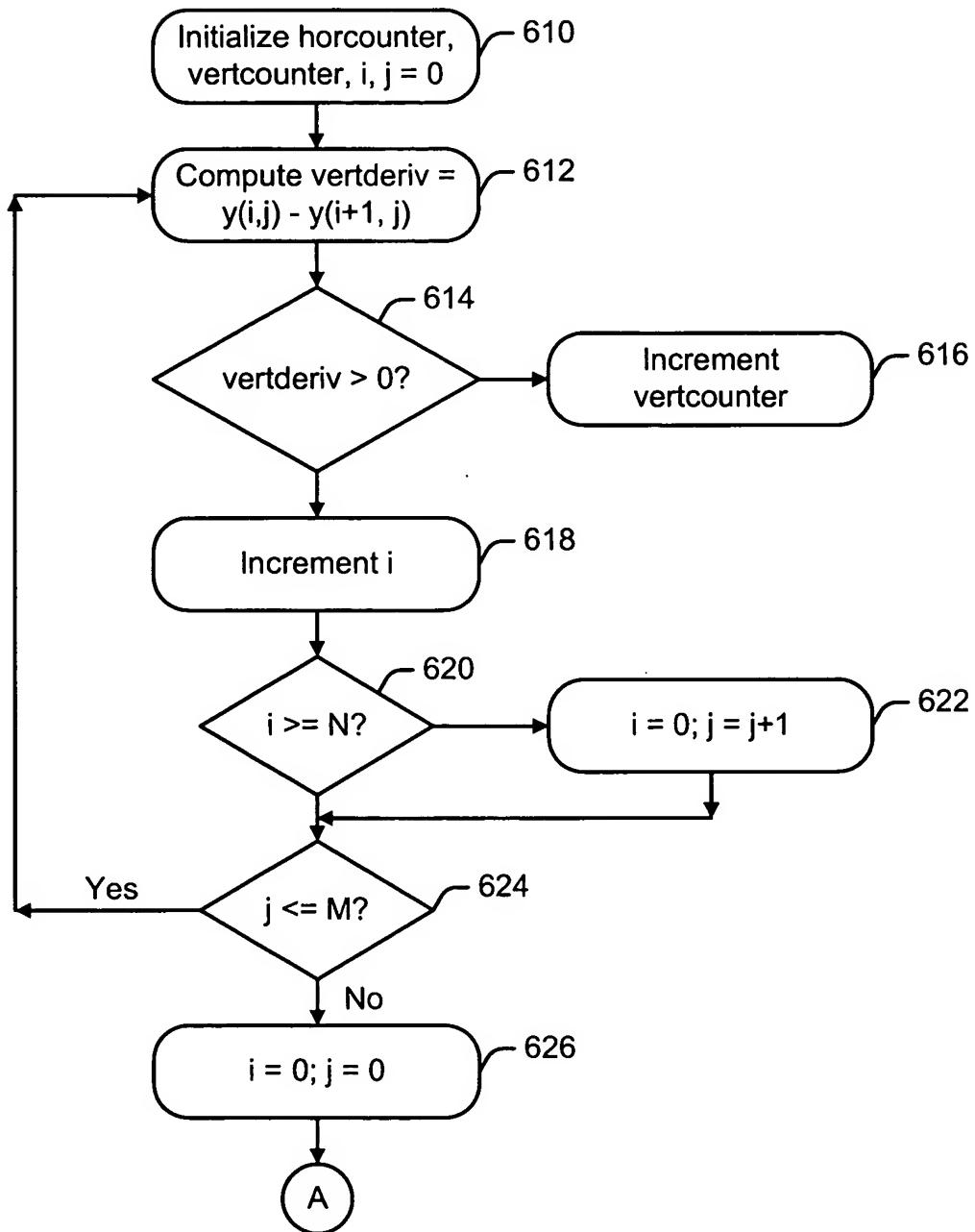


Fig. 6a

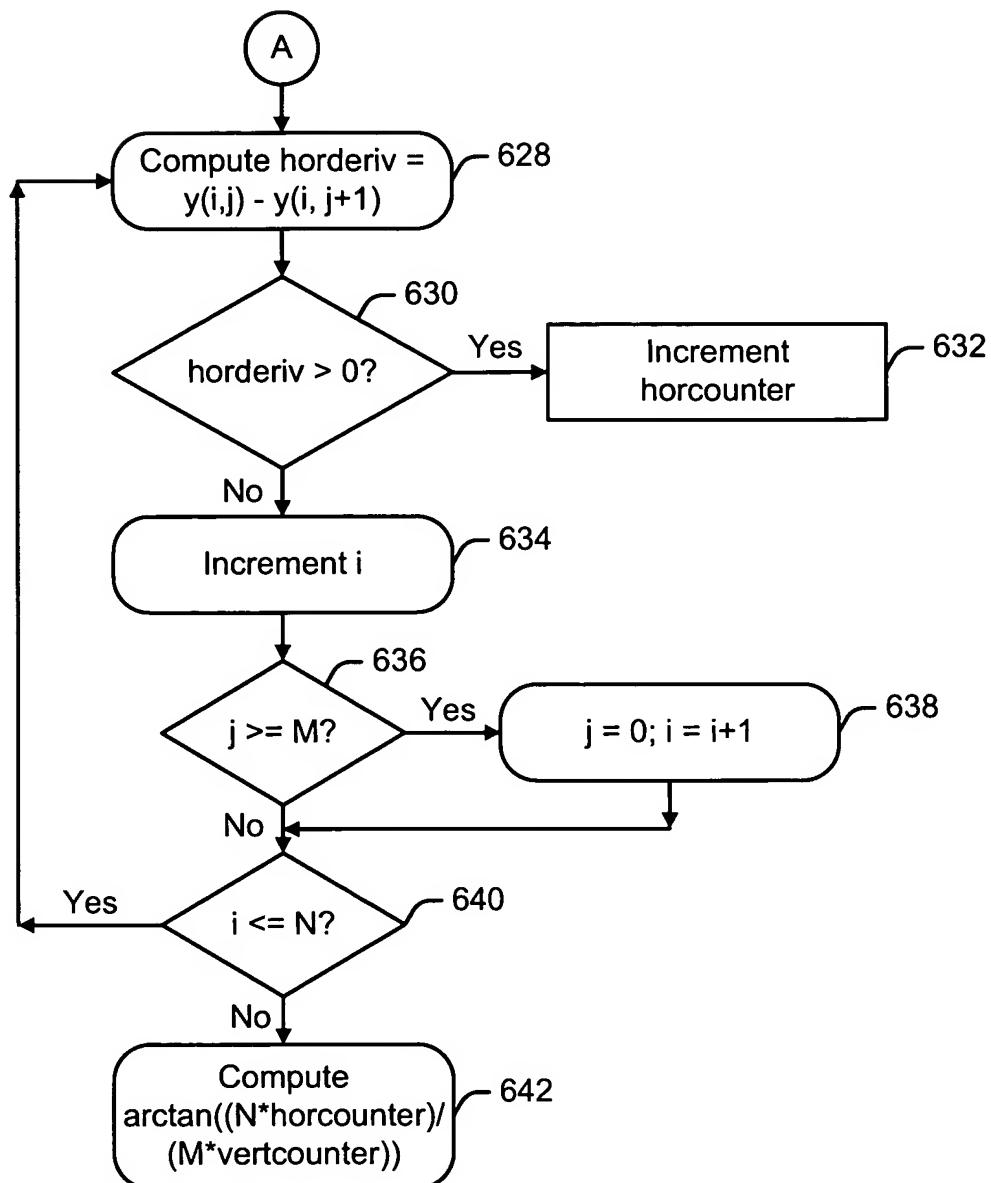


Fig. 6b

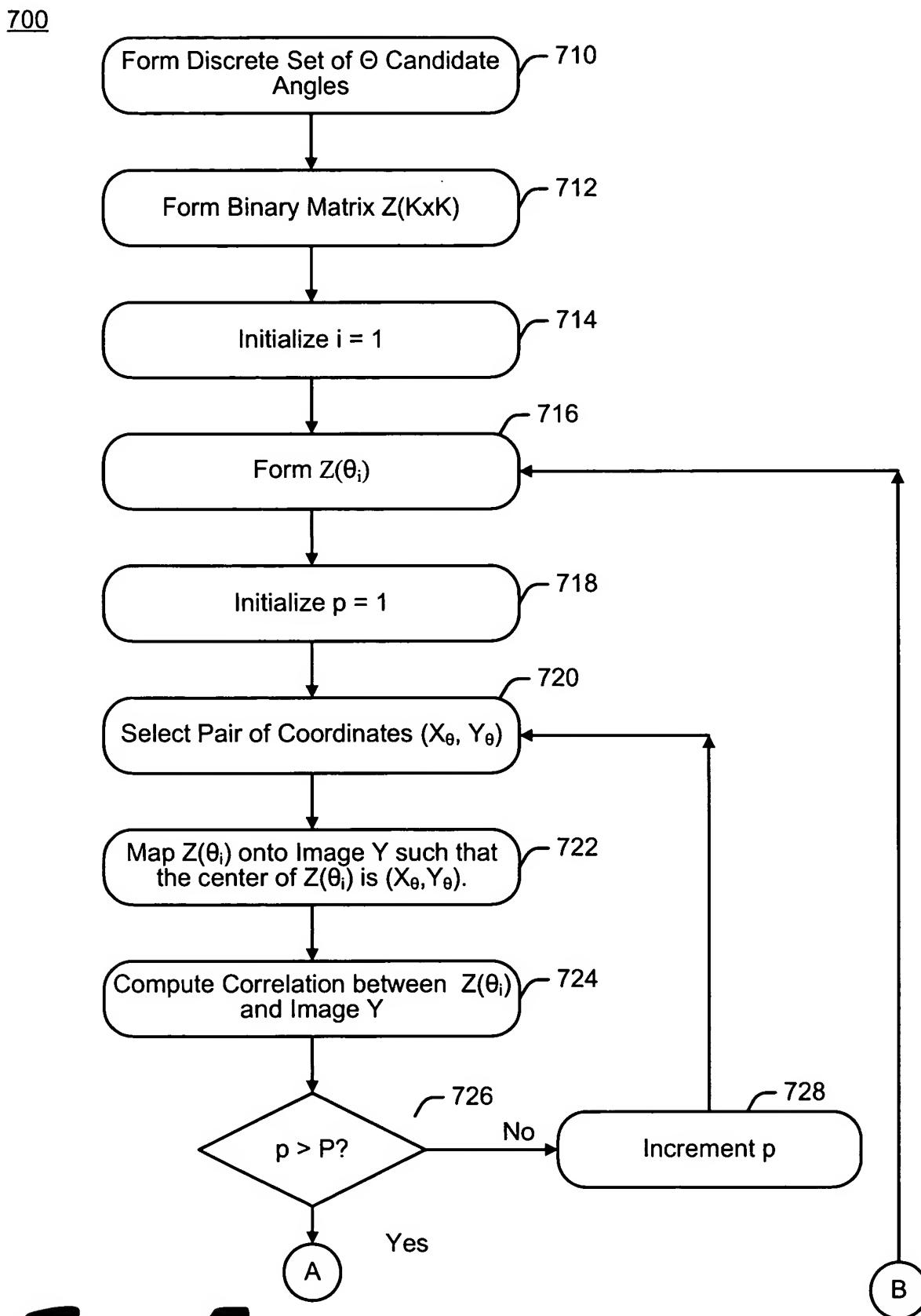


Fig. 7a

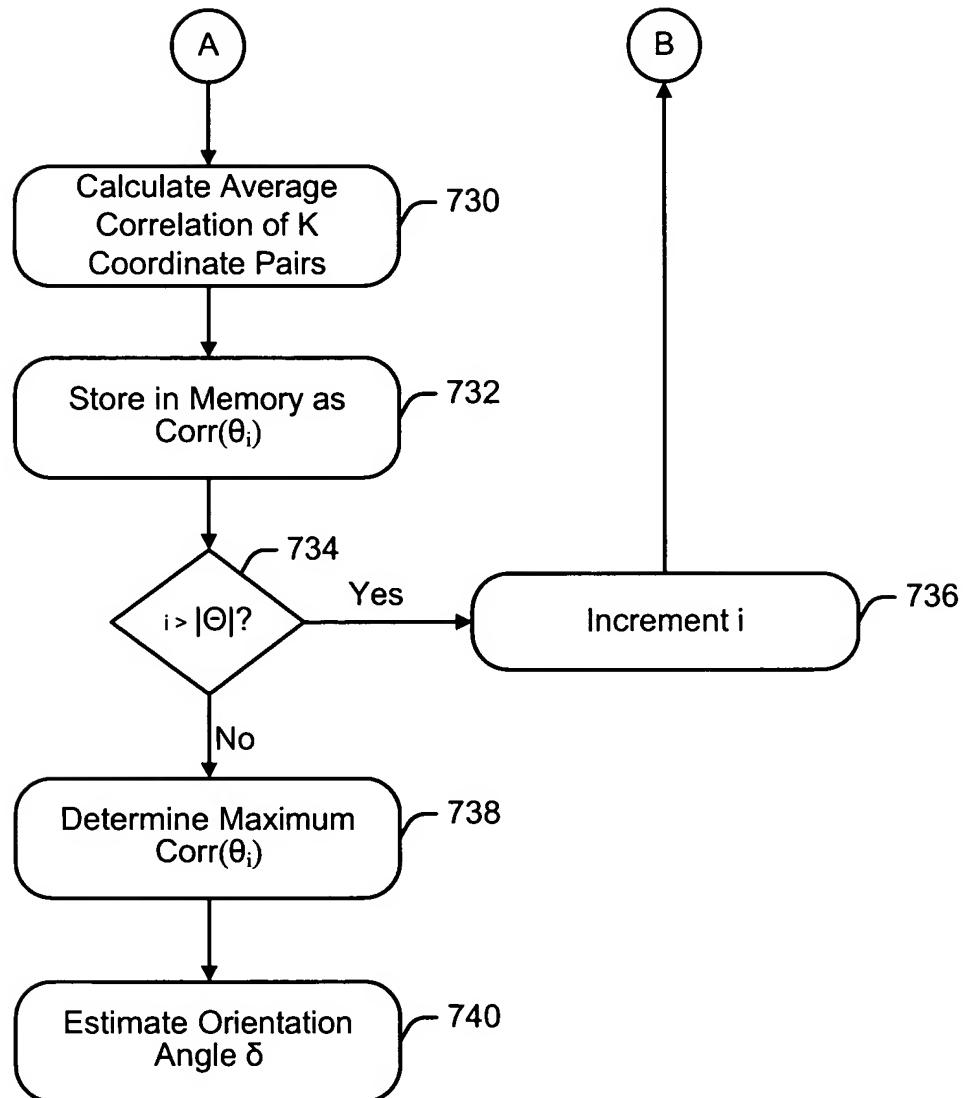


Fig. 7b

0 0 0 0 0 0 0 0 0 0  
0 0 0 0 0 0 0 0 0 0  
0 0 0 0 0 0 0 0 0 0  
0 0 0 0 0 0 0 0 0 0  
0 0 0 0 0 0 0 0 0 0  
1 1 1 1 1 1 1 1 1 1  
0 0 0 0 0 0 0 0 0 0  
0 0 0 0 0 0 0 0 0 0  
0 0 0 0 0 0 0 0 0 0  
0 0 0 0 0 0 0 0 0 0  
0 0 0 0 0 0 0 0 0 0

Fig. 8a

1 1 1 1 1 1 1 1 1 1  
1 1 1 1 1 1 1 1 1 1  
1 1 1 1 1 1 1 1 1 1  
1 1 1 1 1 1 1 1 1 1  
1 1 1 1 1 1 1 1 1 1  
0 0 0 0 0 0 0 0 0 0  
1 1 1 1 1 1 1 1 1 1  
1 1 1 1 1 1 1 1 1 1  
1 1 1 1 1 1 1 1 1 1  
1 1 1 1 1 1 1 1 1 1  
1 1 1 1 1 1 1 1 1 1

Fig. 8b

| 1                  | 2                  | 3                  | 4                  | 5                  | $\Theta$                |
|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------------|
| $\theta_1$         | $\theta_2$         | $\theta_3$         | $\theta_4$         | $\theta_5$         | $\theta_\Theta$         |
| Corr( $\theta_1$ ) | Corr( $\theta_2$ ) | Corr( $\theta_3$ ) | Corr( $\theta_4$ ) | Corr( $\theta_5$ ) | Corr( $\theta_\Theta$ ) |

Fig. 9

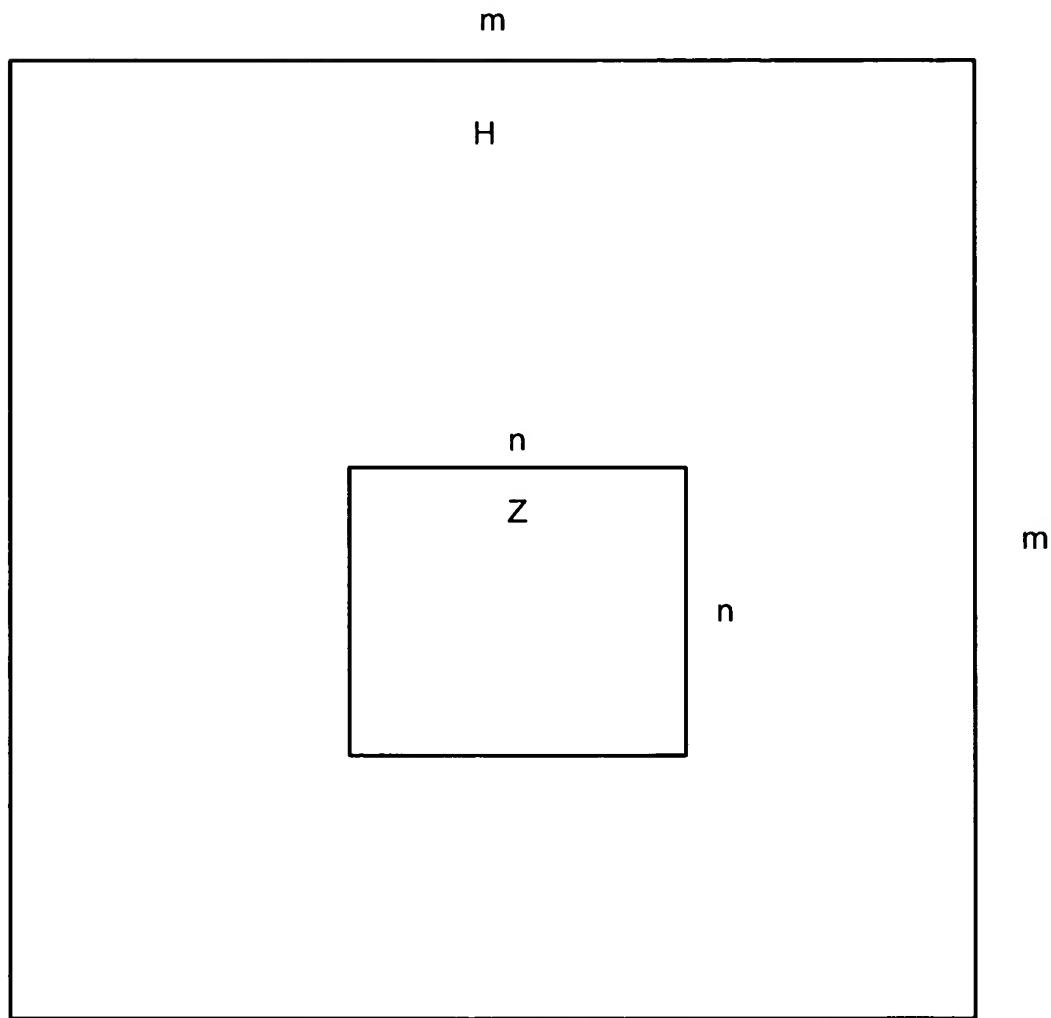


Fig. 10

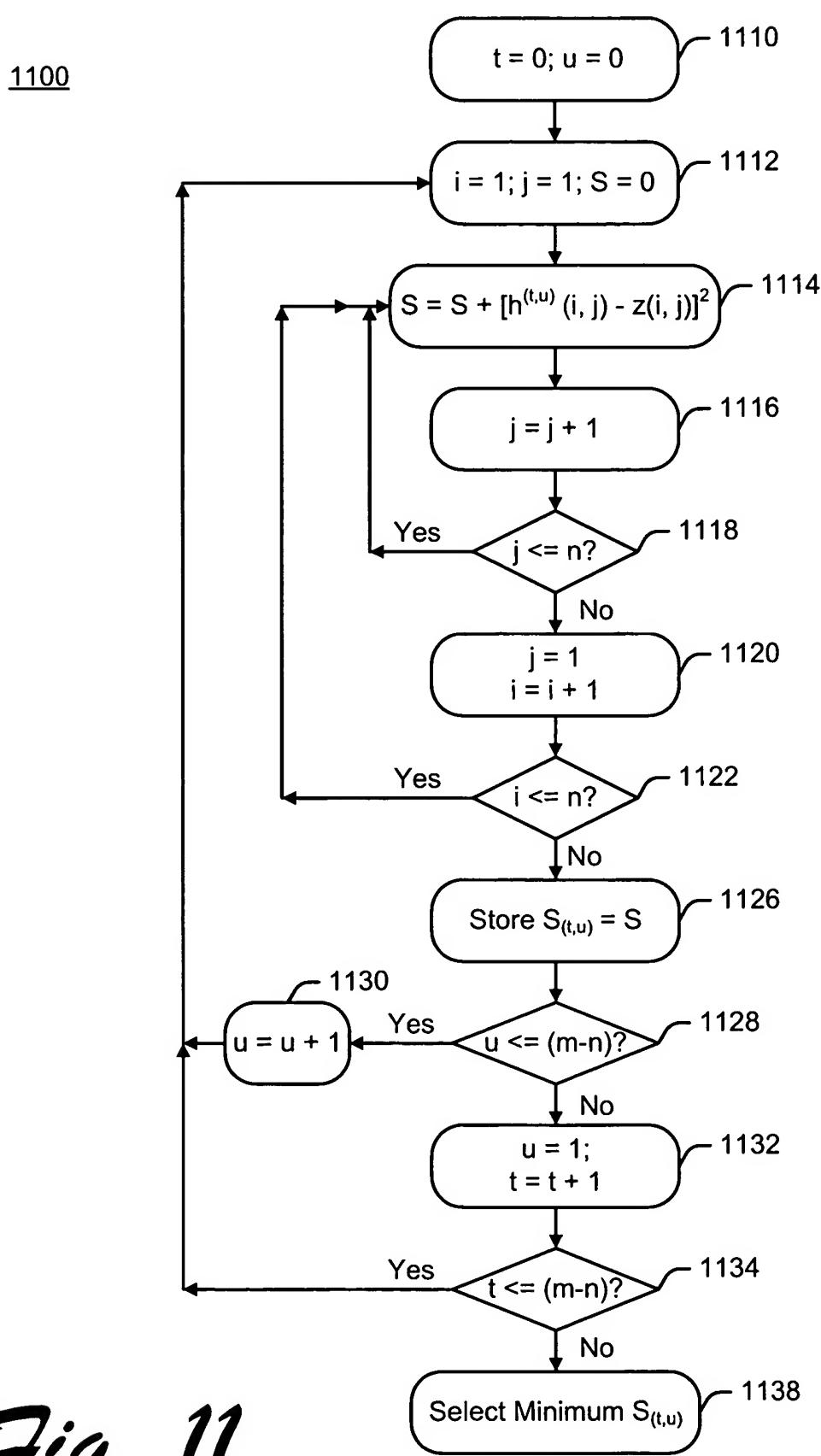
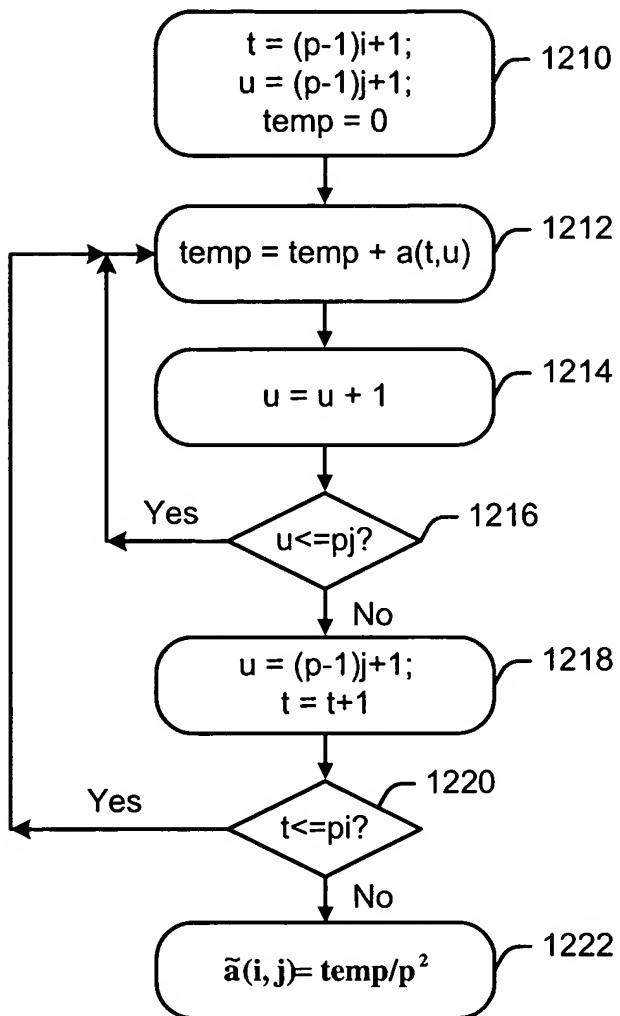


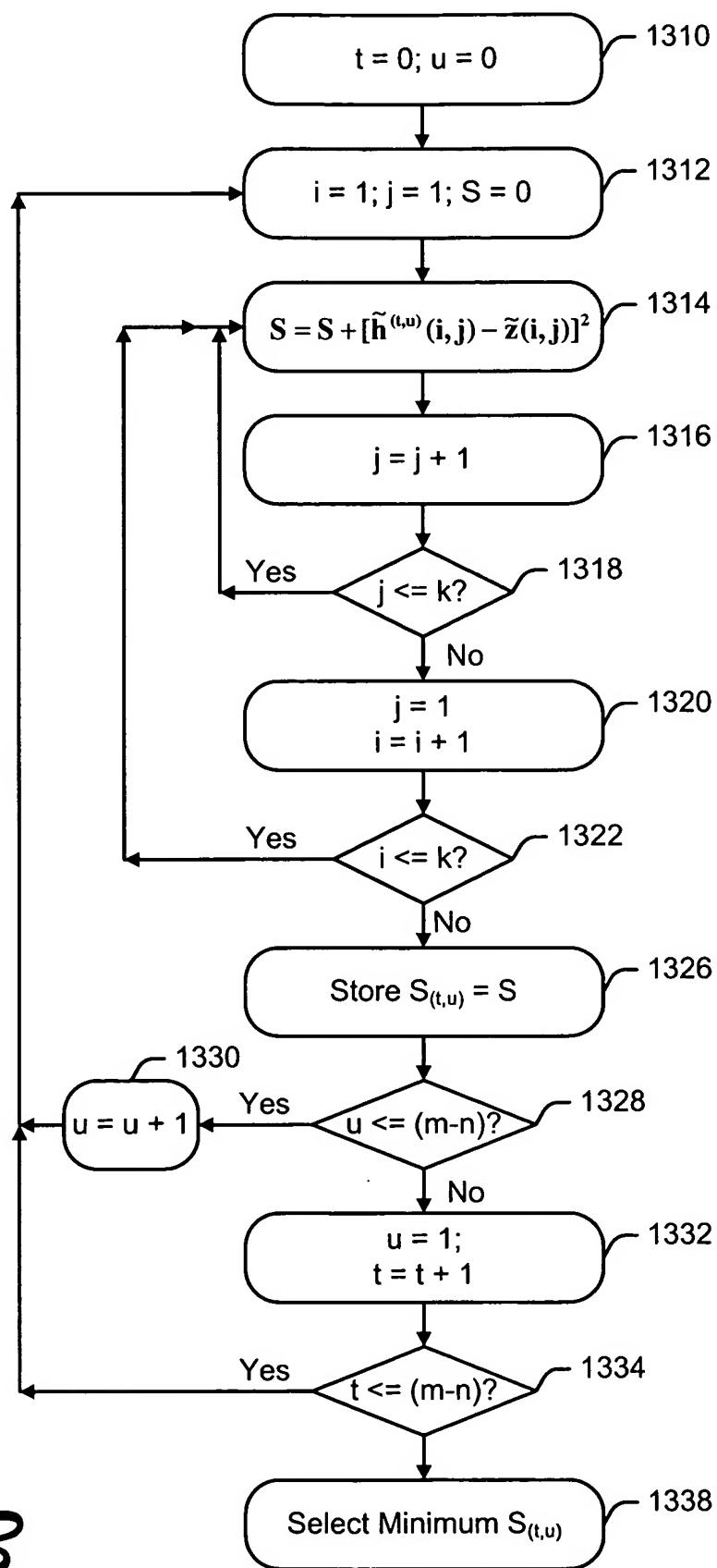
Fig. 11

1200



*Fig. 12*

1300



*Fig. 13*

1400

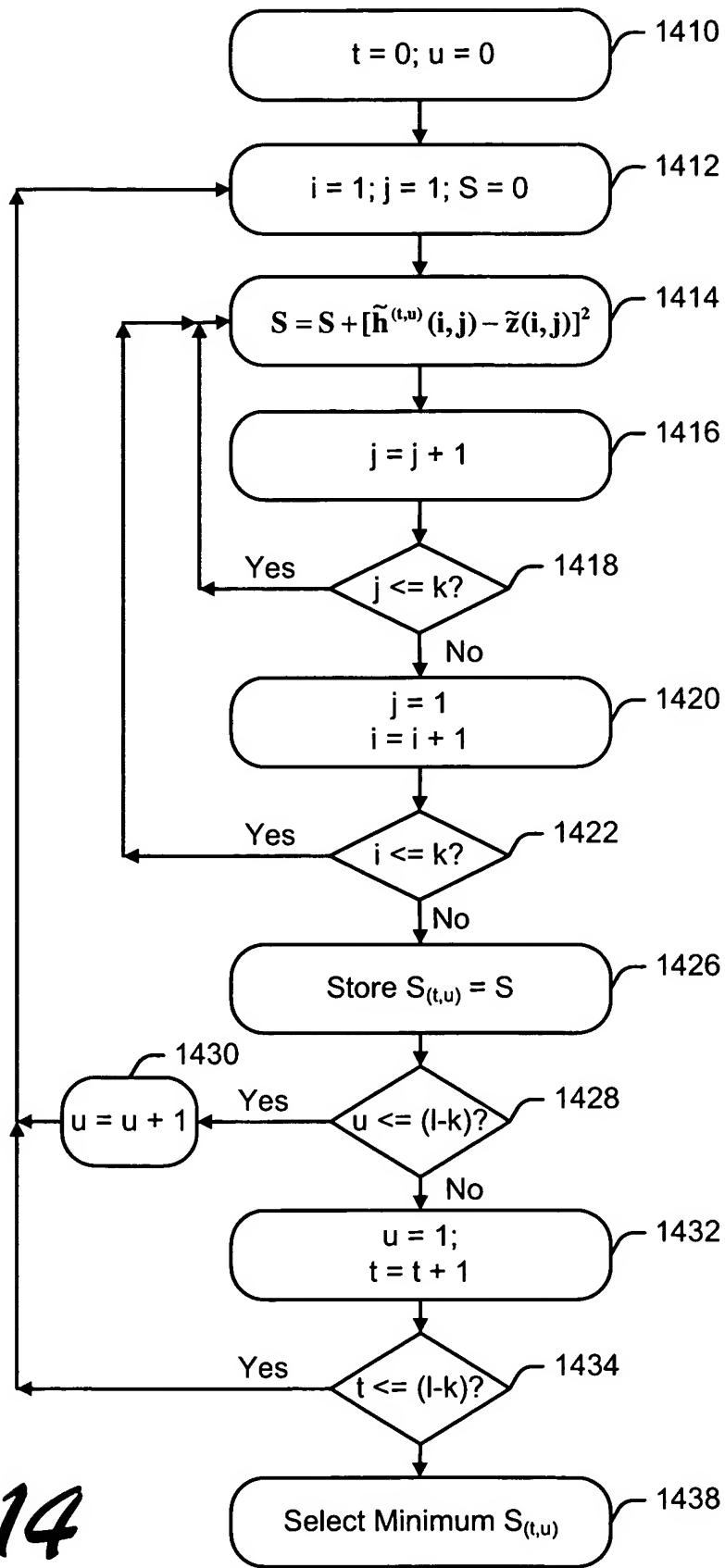


Fig. 14

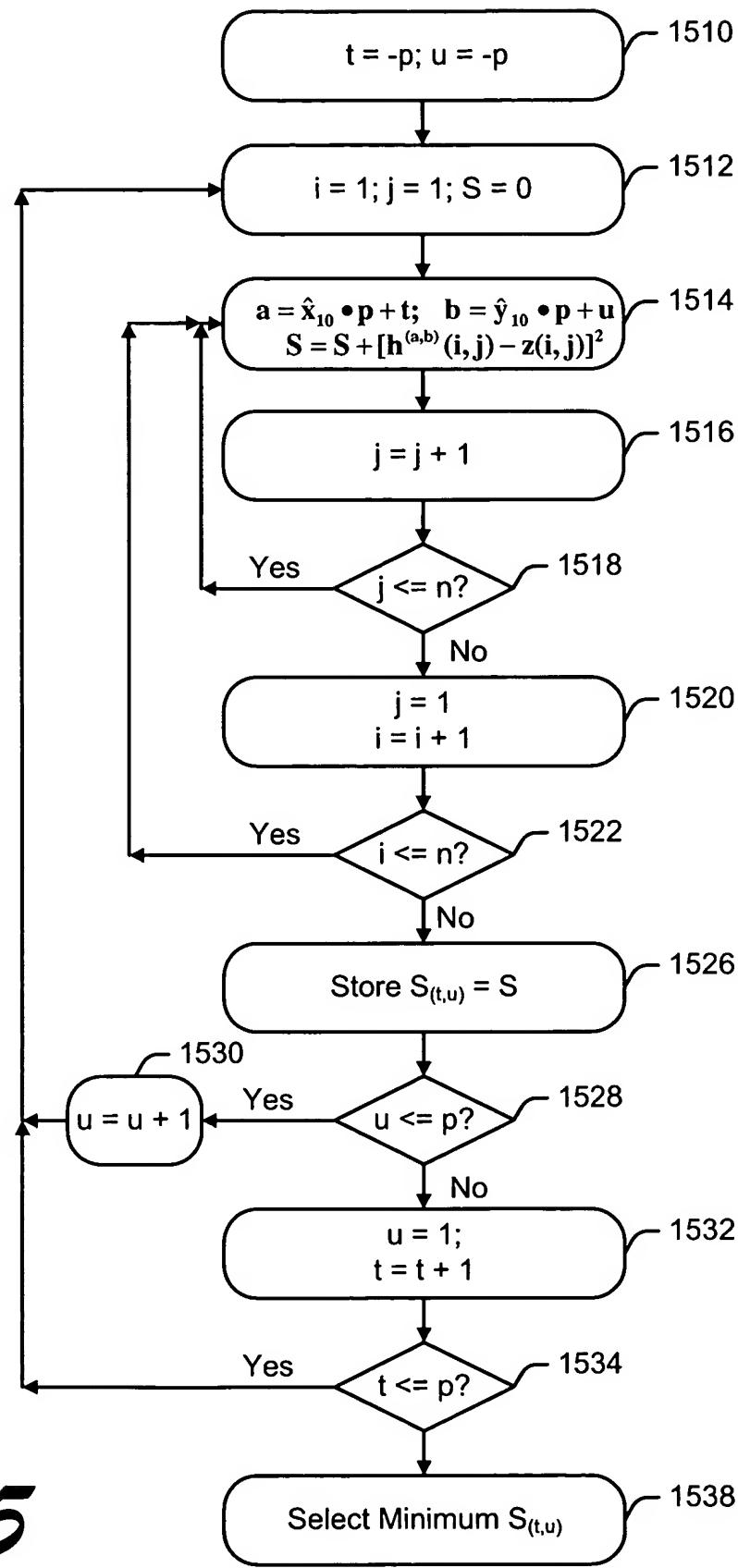


Fig. 15

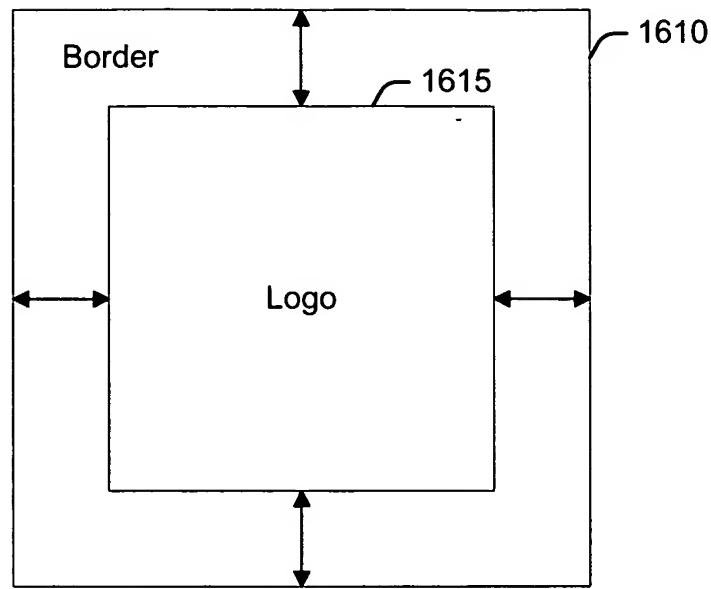


Fig. 16a

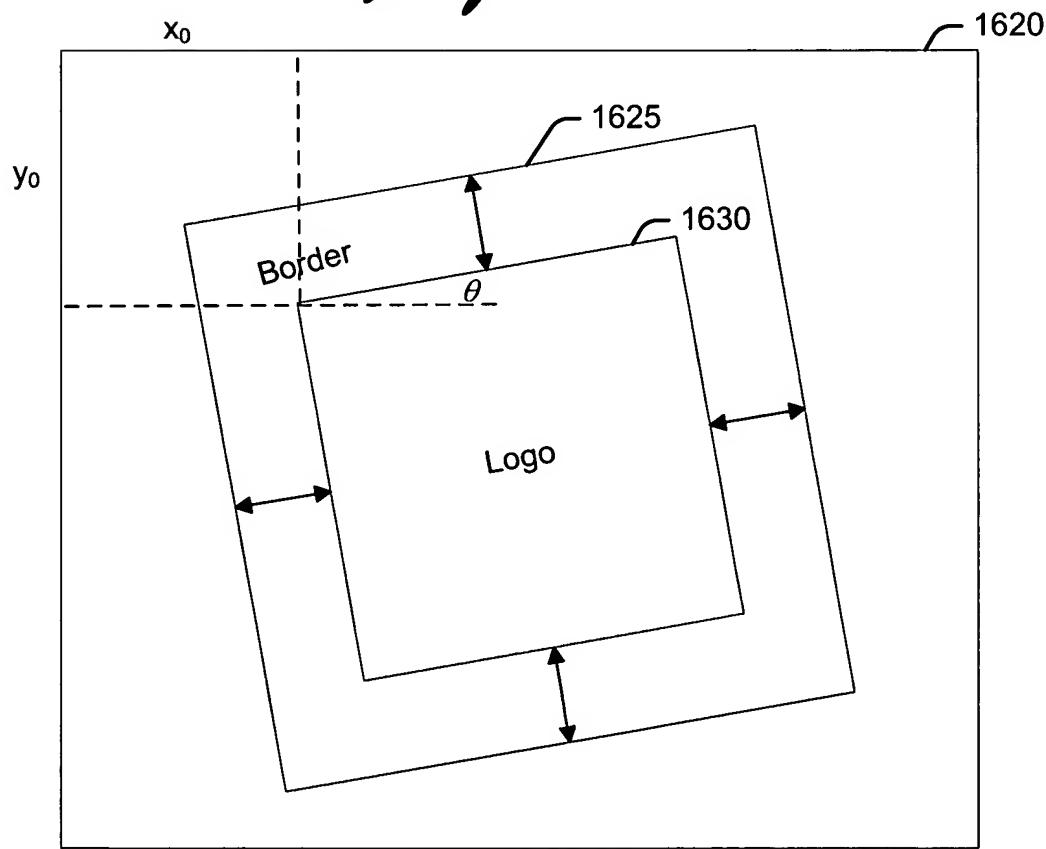


Fig. 16b

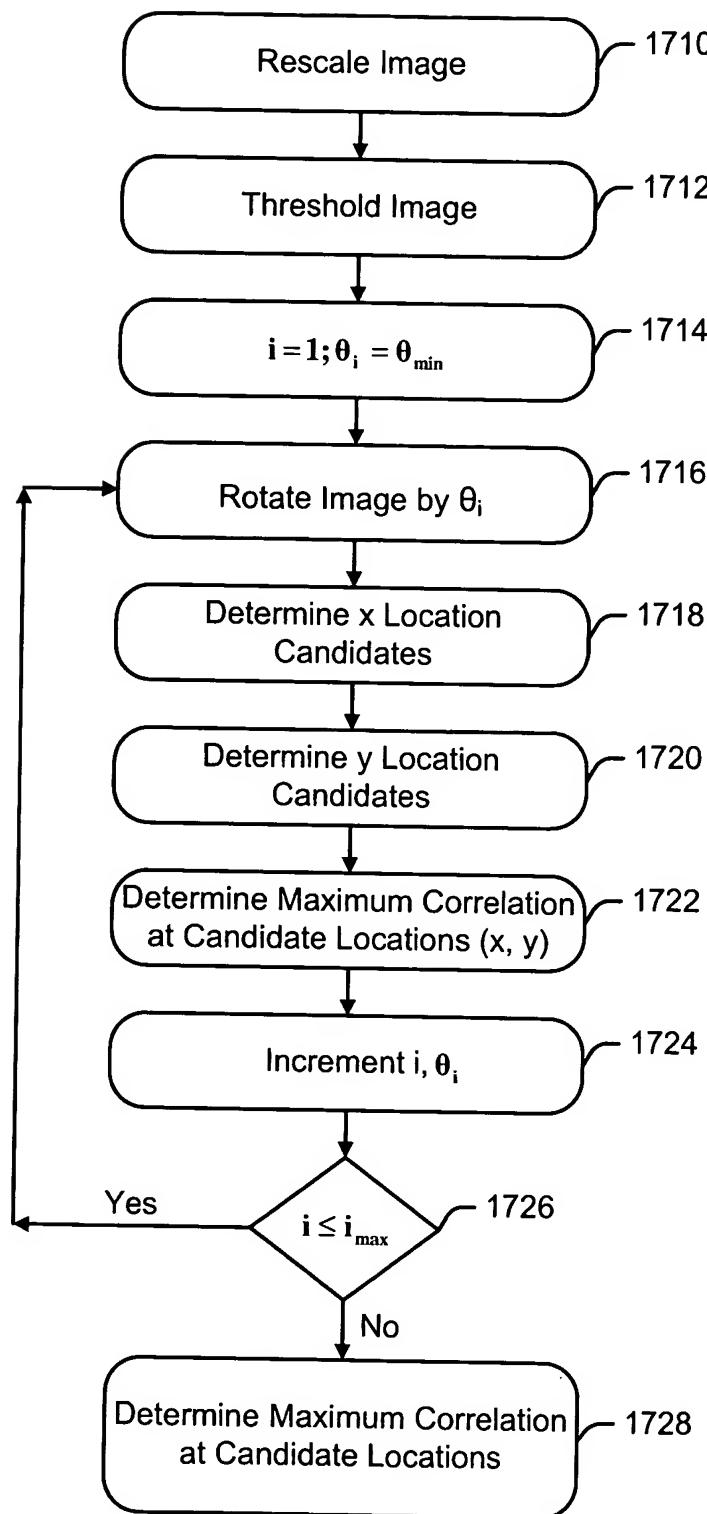


Fig. 17